# Network and Media Servers
## *Section 2*

# Netra i - The Internet Server Family

# Netra j - The Server for Java Computing

| | Netra i 5<br>Netra j 5 | Netra i 150 | Netra i 170<br>Netra i 170E<br>Netra j 170 | Netra i 200E | Netra i 1300<br>Netra j 1300 |
|---|---|---|---|---|---|
| **Packaging** | Desktop | Tower / Rack | Desktop | Desktop | Desktop |
| **Processor** | TurboSPARC | UltraSPARC | UltraSPARC | UltraSPARC | UltraSPARC (1-2) |
| **Clock Speed** | 170 MHz | 167 MHz | 167 MHz | 200 MHz | 300 MHz |
| **Main Memory** | 32MB - 256MB | 64MB - 1GB | 64MB - 1GB | 128MB - 1GB | 128MB - 2GB<br>2MB e-cache |
| **Storage Type** | SCSI-2 | 20 Mbps fast/wide SCSI | 20 Mbps fast/wide SCSI | 20 Mbps fast/wide SCSI | 20 Mbps fast/wide SCSI |
| **Max. Internal Disk** | 4.2GB | 52.5GB | 4.2GB | 4.2GB | 8.4GB |
| **Ext. Disk Capacity** | 118GB | 349GB | 324GB | 324GB | 324GB |
| **Package Slots** | 3 SBus (32 bit) | 2 SBus (64 bit)<br>2RS-232C/RS423 serial;<br>1 parallel | 2 SBus (64 bit)<br>1 dedicated UPA<br>2RS-232C/RS423 serial;<br>1 parallel | 1 dedicated UPA<br>2RS-232C/RS423 serial;<br>1 parallel | 4 SBus (64-bit) |
| **Connectivity** | 10Mbps Ethernet<br>(10Base-T or AUI) | 100Mbps Ethernet<br>(100Base-T) | 10/100Mbps Ethernet (100Base-T or MII) | 10/100Mbps Ethernet (100Base-T or MII) | 10/100Mbps Ethernet (100Base-T or MII) |
| **Network Options** | Token Ring, SunFastEthernet, Quad Ethernet, ISDN, HSI, FDDI, ATM, SunLink 3270 Gateway (Netra j family) | | | | |

| **Included Software** | |
|---|---|
| **NETRA I SERIES:**<br><br>♦ **Operating System:** Solaris 2.5.1 (including UNIX mail services, DNS primary, secondary, and caching, Asynchronous PPP, basic security (TCP Wrappers)), Netra Software 3.1<br>♦ **WWW Services:** Netscape Enterprise Server, Netscape LiveWire<br>♦ **Authoring Tools:** Netscape Navigator Gold software, Java Developer's Kit and sample Java applets<br>♦ **Networking:** IPX Gateway<br>♦ **Administration:** Solstice DiskSuite, Solstice Backup, Solstice Answerbook<br>♦ **E-Mail:** IMAP4, POP3<br>♦ **Security:** FireWall-First! InterScan VirusWall, WebStalker-First<br><br>♦ Also included with Netra i 3000/4000/5000: Solstice SyMON, Netscape SuiteSpot | **NETRA J SERIES:**<br>(Note: Underlined components are included in the Netra j Enhancement Software (NETRA-J-1.1-ESW))<br><br>♦ **Network Client Support:** DHCP, Network Information Service (NIS), JavaStation Software Environment with HotJava Views 1.0, DNS<br>♦ **Back-End Connectivity:** OC://WebConnect Pro (includes OC://WebConnect Gold SNA/legacy access software, OpenVista IDE 3270/5250 front-end development software) 8 licenses included; upgrades available in 10 and 100 license quantities<br>♦ **Netra browser-based administration software:** JavaStation client, user, and HotJava Views groups and properties administration, NIS, DNS, and legacy connectivity administration<br>♦ **Java and Web Development:** Java WorkShop, JavaVirtualMachine, Joe, Netra j Java Computing Library, Java Developer's Kit (JDK) 1.0.2 and JDK 1.1, Netscape LiveWire, Netscape Navigator Gold<br>♦ **Netra Ready ISV applications:** Applix Anyware, Corel Office for Java, and Sanga Software<br>♦ **Web and E-mail:** Netscape Enterprise Server, IMAP4, POP3<br>♦ **Network Connectivity:** Primary/secondary/caching DNS server, IPX Gateway software, Asynchronous PPP, Telnet, FTP, Anonymous FTP Server, TCP/IP support for all client types<br>♦ **Security:** FireWall-First!, Interscan VirusWall, WebStalker-First<br><br>♦ Also included with Netra i 3000/4000/5000: Solstice SyMON, Netscape SuiteSpot |

**This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.**

# Netra Configured Systems

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **NETRA INTERNET SERVERS** | | | |
| NETRA-I-3.1-545 | **Netra i 5** with 170 MHz TurboSPARC processor, 32MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4, 17" color monitor, and TGX frame buffer. Solaris 2.5.1 and Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First. | $7,995 | A |
| NETRA-I-3.1-1170 | **Netra i 1/170** with 167 MHz UltraSPARC processor, 64MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, and SunCD 12, Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First. | $9,495 | A |
| NETRA-I-3.1-1175 | **Netra i 1/170E** with 167 MHz UltraSPARC processor, 64MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4, 17" color monitor, and Creator graphics. Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First. | $13,695 | A |
| NETRA-I-3.1-1205 | **Netra i 1/200E** with 200 MHz UltraSPARC processor, 128MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 12, 17" monitor, Creator Graphics, Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First. | $18,195 | A |
| NETRA-I-3.1-21300 | **Netra i 2/1300** with 300 MHz UltraSPARC processor, 128MB, 4.2GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 12, Netra 3.1 Software (preinstalled), InterScan VirusWall, WebStalker-First. | $26,295 | A |
| **NETRA J SERVERS** | | | |
| NETRA-J-1.1-545 | **Netra j 5** with 170 MHz TurboSPARC processor, 32MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 4, 17" color monitor, and TurboGX frame buffer. Netra j 1.1 software for JavaStations and network client support, WebConnect and OpenVista for 3270/5250/VT220 host connectivity, JDK 1.0.2 & 1.1, JVM, Java Workshop, NIS, DHCP, WebStalker-First, InterScan VirusWall, Netra i 3.1 software. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.) | $8,195 | A |
| NETRA-J-1.1-1175 | **Netra j 170** with 167 MHz UltraSPARC processor, 64MB, 2.1GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 12, 17" color monitor, and TurboGX frame buffer. Netra j 1.1 software for JavaStations and network client support, WebConnect and OpenVista for 3270/5250/VT220 host connectivity, JDK 1.0.2 & 1.1, JVM, Java Workshop, NIS, DHCP, WebStalker-First, InterScan VirusWall, Netra i 3.1 software. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.) | $13,895 | A |
| NETRA-J-1.1-21300 | **Netra j 1300** with 300 MHz UltraSPARC processor, 128MB, 4.2GB Fast SCSI-2 disk, internal 1.44MB floppy disk drive, SunCD 12, 17" color monitor, and TurboGX frame buffer. Netra j 1.1 software for JavaStations and network client support, WebConnect and OpenVista for 3270/5250/VT220 host connectivity, JDK 1.0.2 & 1.1, JVM, Java Workshop, NIS, DHCP, WebStalker-First, InterScan VirusWall, Netra i 3.1 software. (Solaris 2.5.1, Netscape Enterprise Server, LiveWire, FireWall-First!, IPX Gateway preinstalled.) | $26,495 | A |

**NOTES:**

- It is possible to upgrade all Netra i 3.1 servers to Netra j servers. To do so, follow the respective ordering procedures for Netra i 3.1 and include the Netra j Enhancement Software (NETRA-J-1.0-ESW) with the order.
- Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet Server that is ordered in the United States.
- All system orders that include a monitor must also include a Country Kit.
- In order to complete the installation and connect to the Internet, customers also need to select an Internet service provider.

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# Netra Hardware (Upgrades)

| From | Part Number and Description | List Price | Discount Category |
|------|---------------------------|------------|-------------------|
| Netra i 4/5XX | **UGN4/5XXNI3.1-1175**<br>Chassis upgrade to Ultra 1 Netra i server with 167 MHz UltraSPARC processor, 64MB, CD-ROM, and Creator graphics, no disk. Solaris 2.5.1, Netra Software 3.1, Netscape Enterprise Server, Server LiveWire Web Site Management, Navigator, Gold Authoring, Firewall-First!, and IPX software pre-installed. | $12,200 | A* |
| Netra i 4/5XX | **UGN4/5XXI3.1-21300**<br>Chassis upgrade to Ultra 2 Netra i server with 300 MHz UltraSPARC processor, 128MB, 1.44MB floppy drive, and CD-ROM. No disk. Netra Software 3.1, InterScan VirusWall, WebStalker-First. | $23,195 | A* |
| Netra i 6XX | **UGN6XX-I-3.1-1175**<br>Upgrade to Ultra 1 Netra i server with 167 MHz UltraSPARC processor, 64MB, CD-ROM, and Creator graphics, no disk, no memory. Solaris 2.5.1, Netra Software 3.1, Netscape Enterprise Server, Server LiveWire Web Site Management, Navigator, Gold Authoring, Firewall-First!, and IPX software pre-installed. | $12,395 | A* |
| Netra i 6XX | **UGN6XX-I-3.1-21300**<br>Upgrade to Ultra 2 Netra i server with 300 MHz UltraSPARC processor, 1.44MB floppy drive, CD-ROM, and Creator graphics (no disk and no memory). Netra Software 3.1, InterScan VirusWall, WebStalker-First. | $20,195 | A* |
| S1000 / 6X0 | **UGS1000-NI3.1-4001**<br>Upgrade to Netra i 4000 web server, Base Enclosure, 8-slot card cage, one SunCD 4, two Power/Cooling Modules, no processor, no memory, no CPU/Memory Boards, no I/O Boards. Netra Software 3.1 pre-installed, InterScan Virus Wall, WebStalker-First!, Netscape SuiteSpot.<br>*NOTE:* See ''Netra Internet Server 3000, 4000, and 5000" Ordering Flow Chart, starting from Step 2, to order additional system components. | $33,500 | A* |
| S1000 / S2000 | **UGS2000-NI3.1-5001**<br>Upgrade to Netra i 5000 web server, System Cabinet, 8-slot card cage, one SunCD 4, two Power/Cooling Modules, no processor, no memory, no CPU/Memory Boards, no I/O Boards. Netra Software 3.1 pre-installed, InterScan Virus Wall, WebStalker-First!, Netscape SuiteSpot.<br>*NOTE:* See ''Netra Internet Server 3000, 4000 and 5000" Ordering Flow Chart, starting from Step 2, to order additional system components. | $42,000 | A* |

\* Maximum discount may apply.

**Notes:**
- Upgrades require Solaris 2.5 or later.
- Sun Ultra 1 systems require 2 identical SIMMs. Sun Ultra 2 systems require 4 identical SIMMs.
- Transferred disks to Netra i must be of 1.05GB density or greater.
- Order the application workstation Country Kit at no extra charge.

# Netra Software

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| NETRA-J-1.1-ESW | Netra j Enhancement Software 1.1 for any Netra j 1.0 or i 3.1 server; Netra j 1.1 software for Java Computing and JavaStation support, 8-session demo license for WebConnect and OpenVista for 3270/5250/VT220 host connectivity, JDK 1.0.2 and 1.1, JVM, NIS, DHCP integrated on Netra j 1.1. CD; Java WorkShop and Netra Ready ISV CD copackaged. | $395 | B |
| NETRA-I-3.1-E-S | Netra i 3.1 Entryption Kit (U.S. customers only). | N/C | - |
| NETRA-NFS1.1 | Netra NFS SmartServe 1.1 software providing RAID-5, support for hot plug/spare/swap, and Syntax TotalNET Advanced Server (TAS) software which allows 25 PC (LAN Manager), NetWare, and MacOS clients to simultaneously and transparently access the Netra NFS Server. Includes media, documentation and license. | N/C | - |

**NOTE:** Netra j 1.0 Enhancement Software requires Netra i 3.1 Software.

# Netra Software Upgrades

| From | Part Number and Description | List Price | Discount Category |
|---|---|---|---|
| Netra i Version 2.0, 3.0 | **NETRA-3.1-FULL-UPG**<br>Netra i 3.1 Full Software Upgrade. | $2,695 | B |
| WebConnect Pro | **NETRAJWBPRO-L10U**<br><br>10-session License Upgrade for Netra j 1.1 servers; right-to-use license for 10 sessions or users; requires Netra j 1.1 server, maximum of 1,000 sessions per server. | $1,290 | B |
| WebConnect Pro | **NETRAJWBPRO-L100U**<br><br>100-session License Upgrade for Netra j 1.1 servers; right-to-use license for 10 sessions or users; requires Netra j 1.1 server, maximum of 1,000 sessions per server. | $12,900 | B |
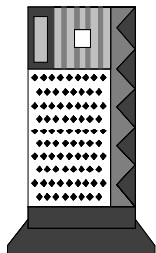
# Netra Internet Server i 150

The Netra i 150 Internet Server is a configure-to-order product consisting of an entry product and additional factory-installable options. Rack-ready configurations include a rack-mount kit for standard 19-inch racks. After the base part number, each step represents an *OPTIONAL* line item on a server sales order. It is possible to upgrade all Netra i 3.1 servers to Netra j servers. To do so, follow the respective ordering procedures for Netra i and include the Netra j Enhancement Software (NETRA-J-1.0-ESW) with the order. NOTE: Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet server that is ordered in the United States.

*Step 1(required)*

**Select Family Part Number**

**NETRA-I150** - Netra i 150 Family Part Number

*Step 2 (required)*

**Enter Netra i 150 Base Part Number**

**NETRA-I-3.1-I151** - Tower version
**NETRA-I-3.1-I151R** - Rackmount version

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| NETRA-I-3.1-1151 | Sun Netra i 150 Internet Server with 167MHz UltraSPARC processor, 64MB, 2.1GBsystem disk, 4.2GB storage disk, internal 1.44MB floppy disk drive, SunCD 12, Netra Software 3.1 pre-installed, InterScan Virus Wall, WebStalker-First. | $10,995 | A |
| NETRA-I-3.1-1151R | Sun Netra i 150 Internet Server, Rack Ready configuration, with 167MHz UltraSPARC processor, 64MB, 2.1GB system disk, 4.2GB storage disk, internal 1.44MB floppy disk drive, SunCD 12, Netra Software 3.1 pre-installed, InterScan Virus Wall, WebStalker-First. | $10,995 | A |

*Step 3*

**Additional Memory**
SIMMs can only be added in pairs up to a maximum of 3 pairs (Entry System includes 2 SIMMs (2X32-MB), maximum configuration can have 8)

**7002A** - 64MB ECC (2 X 32MB SIMMs)
**7003A** - 128MB ECC (2 X 64MB SIMMs)
**7004A** - 256MB ECC (2 X 128MB SIMMs

| MEMORY | | | |
|---|---|---|---|
| (X)7002A | 64MB memory expansion (2 X 32MB SIMMs) | $1,000 | A |
| (X)7003A | 128MB memory expansion (2 X 64MB SIMMs) | $2,000 | A |
| (X)7004A | 256MB memory expansion (2 X 128MB SIMMs) | $7,500 | A |

*Step 4*

**Disk Options**
Base configuration includes 2 disks (1 system, 1 data). Maximum configuration can have 13.

**5153A** - 2.1GB internal fast wide SCSI-2 disk
**5214A** - 4.2GB internal fast wide SCSI-2 disk

| DISK OPTIONS | | | |
|---|---|---|---|
| X5153A | Internal 2.1 GB 7200 RPM fast wide SCSI-2 disk | $950 | A |
| X5214A | Internal 4.2GB 7200 RPM fast wide SCSI-2 disk | $1,400 | A |

*Step 5*

**Internal Storage**
Add 1 internal 4mm tape

**6286A** - 12-24GB 4mm DDS-3 tape drive
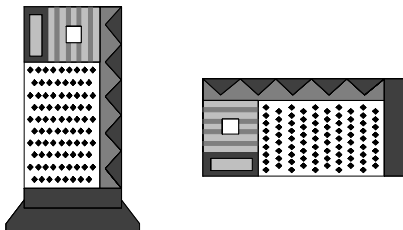
| INTERNAL STORAGE | | | |
|---|---|---|---|
| X6286A | Internal 12-24GB 4mm DDS-3 tape drive | $2,125 | A |

*Step 6*

**Add network card**

**1042A** - Quad FastEthernet Card (QFE)
**1025A** - SunFDDI single-attach SBus adapter (SAS) (FDDI-5)
**1059A** - SunFastEthernet 10/100SBus adapter 2.0
**1014A** - Token ring interface/SBus (TRI/S)

| NETWORK CARD | | | |
|---|---|---|---|
| (X)1042A | Quad FastEthernet SBus card (QFE) | $1,995 | A |
| (X)1025A | SunFDDI single-attach SBus adapter (SAS) (FDDI-5) | $2,500 | A |
| (X)1059A | SunFastEthernet 10/100 SBus adapter 2.0 | $795 | A |
| (X)1014A | Token ring interface/SBus (TRI/S) for Solaris 2.x | $1,350 | A |

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# Netra NFS 150 Server

| Product Specifications | Netra NFS 150 Server |
|---|---|
| Packaging | Tower or Rack Ready (4 servers per standard 19-inch rack) - 110V or 240V |
| Processor | 167 MHz UltraSPARC uniprocessor |
| Cache Size | 16KB on chip, 512KB external cache |
| Memory | 128MB - 512MB ECC |
| Internal Disks | 1-inch 7200 RPM<br>• Base: One 2.1GB system disk, four 4.2GB data disks<br>• Maximum: One 2.1GB system disk; twelve 4.2GB data disks (50.4GB total capacity, 1 of these 4.2GB used for parity) |
| External Disk Capacity | Supports MultiPack-12 (up to twelve 4.2GB data disks; 50.4GB total external disk capacity, one disk for parity, external MultiPack is second file system) |
| Networks | • Base: One on-board 10BASE-T Ethernet and one 10/100BASE-T Fast Ethernet<br>• Maximum: Nine 10BASE-T, two 100BASE-T, two FDDI, two Token Ring interfaces, or two SunATM 155MB adapters |
| I/O Slots | 3 SBus slots: one fast/wide SCSI card for 4-12 data disks; one 100BASE-T Fast Ethernet, one available slot |
| Monitor, TGX | Optional - not recommended |
| System Software | Netra NFS SmartServe 1.1 (optimized version of the Solaris 2.5.1 operating environment, plus on-line backup software, plus Syntax TAS software) |
| Netra NFS SmartServe 1.1 Features | NFS v2 and v3, PC-NFS Authentication Server, DNS server or client, NIS client, local server, single server Solstice Backup (pre-enabled), WebNFS (NFS file access over WWW) |
| Internal Media, Backup | SunCD 12 required and floppy drive standard.  4mm DDS-3 tape optional and factory-installable |
| External Tape Backup | SPARCstorage Library Model 8/140, 140GB optional, DLT 4000 and 6000 |
| Ease-of-Management Features | • Preinstalled software, Web browser-based (HTML) administration<br>• Single file system for each meta-device<br>• RAID 5 initialized disks<br>• SNMP agent<br>• Network configuration through LCD panel or floppy disk<br>• Bundled on-line backup/restore software (Solstice Backup)<br>• PDC BudTool and Spectra Logic Alexandria backup software qualified |
| Reliability & Availability Features | • Internal UPS to filter power outage spikes and for graceful shutdown in case of power failure<br>• Smart recovery from system hangs<br>• E-mail notification of problems<br>• RAID 5 standard<br>• Hot disk spares, swaps, and plugs supported |
| Performance | Tower: 1542 NFSops at 15.8 ms (RAID 5)<br>Rack: Est. 5292 NFSops at 14.5 ms (RAID 5) in single enclosure (4 to a rack) |

# Netra NFS 150 Server

The Netra NFS Server is a configure-to-order product consisting of an entry product and additional factory-installable options. Rack-ready configurations include a rack-mount kit for standard 19-inch racks. After step 4, each step represents an *OPTIONAL* line item on a server sales order.  NOTE: Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet server that is ordered in the United States.

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| NETRA-NFS151T | Sun Netra NFS Server with 167MHz UltraSPARC-I processor, 128MB, 2.1GB FAST SCSI-2 system disk, tower, internal 1.44MB floppy disk drive, 10baseT, fast wide SCSI card, 100baseT SunFastEthernet 2.0, UPS, 25 client RTU for Syntax TAS | $17,995 | A |
| NETRA-NFS151R | Sun Netra NFS Server with 167MHz UltraSPARC-I processor, 128MB, 2.1GB FAST SCSI-2 system disk, rack-ready, internal 1.44MB floppy disk drive, 10baseT, fast wide SCSI card, 100baseT SunFastEthernet 2.0, UPS, 25 client RTU for Syntax TAS | $17,995 | A |

*Step 1(required)*

**Order Enclosure type** → **NETRA-NFS151T** - Tower enclosure / **NETRA-NFS151R** - Rack mount enclosure

*Step 2 (required)*

**NFS Software**
Order Netra NFS SmartServe software. Order the localized software version for your country (i.e. NETRA-NFS-1.1-XX-S) → **NETRA-NFS-1.1** - Netra NFS SmartServe 1.1 - Factory installed.

| NFS SOFTWARE | | | |
|---|---|---|---|
| NETRA-NFS-1.1 | Netra NFS SmartServe 1.1 software providing RAID-5, support for hot plug/spare/swap, and Syntax TotalNET Advanced Server (TAS) software which allows 25 PC (LAN Manager), NetWare, and MacOS clients to simultaneously and transparently access the Netra NFS Server. | N/C | N/D |

*Step 3 (required)*

**CD-ROM**
Add a CD-ROM to your configuration. → **6165A** - 12x SunCD

| CD-ROM | | | |
|---|---|---|---|
| 6165A | SunCD 12 internal CD-ROM drive for the Netra NFS 150 | $300 | A |

*Step 4 (required)*

**Storage Disk Drives (internal)**
- Disk drives can only be added in pairs.
- Minimum of 4 disks need to be ordered.
- All disk drives must be of same type (i.e. either all 4.2GB or 2.1GB)
→ **CHOOSE ONE TYPE:**
**5153A** - 2.1GB internal fast wide SCSI-2 disk
**5214A** - 4.2GB internal fast wide SCSI-2 disk

| STORAGE DISK DRIVES | | | |
|---|---|---|---|
| X5153A | Internal 2.1 GB 7200 RPM fast wide SCSI-2 disk | $950 | A |
| X5214A | Internal 4.2GB 7200 RPM fast wide SCSI-2 disk | $1,400 | A |

*Step 5*

**Add Memory**
- Supports up to 512MB.
- 16MB, 32MB, 64MB SIMM modules are supported. Base config. comes with 2 x 64MB SIMMs.
- SIMMs can only be added in pairs up to a maximum of 4 pairs.
- For optimal performance, order the 7003A SIMMs.
→ **7002A** - 64MB ECC (2 X 32MB SIMMs)
**7003A** - 128MB ECC (2 X 64MB SIMMs)
**7004A** - 256MB ECC (2 X 128MB SIMMs)

| MEMORY | | | |
|---|---|---|---|
| (X)7002A | 64MB memory expansion (2 X 32MB SIMMs) | $1,000 | A |
| (X)7003A | 128MB memory expansion (2 X 64MB SIMMs) | $2,000 | A |
| (X)7004A | 256MB memory expansion (2 X 128MB SIMMs) | $7,500 | A |

*cont.*

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# Netra NFS Server (cont.)

Each of the following steps represents a line item on a Sales Order.  All are optional.

*Step 6*

| Internal Tape |
|---|
| Maximum of 1 internal tape |

→ **6286A** - 12/24GB 4mm DDS3 tape drive

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **INTERNAL TAPE** | | | |
| X6286A | 12/24GB 4mm DDS3 tape drive | $2,125 | A |

*Step 7*

| Networking & Communications Controllers |
|---|
| Add desired controllers.  Only 1 Sbus slot is available for either network or external disk SCSI adapter. |

→ **1014A -** Token ring interface/SBus (TRI/S)
**1025A** - FDDI-5 SAS card single SBus wide
**1026A** - FDDI-5 DAS card single SBus wide
**1042A** - Quad FastEthernet Card (QFE)
**1059A -** SunFastEthernet 10/100SBus adapter 2.0
**X1060A** - SunATM-155/MFiber SBus adapter 2.0
**X1061A** - SunATM-155/UTP5 SBus adapter 2.0

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **NETWORKING & COMMUNICATIONS CONTROLLERS** | | | |
| (X)1014A | Token ring interface/SBus (TRI/S) for Solaris 2.x | $1,350 | A |
| (X)1025A | SunFDDI single-attach SBus adapter (SAS) (FDDI-5) | $2,500 | A |
| (X)1026A | SunFDDI single-attach SBus adapter (DAS) (FDDI-5) | $3,775 | A |
| (X)1042A | Quad FastEthernet SBus card (QFE) | $1,995 | A |
| (X)1059A | SunFastEthernet 10/100 SBus adapter 2.0 | $795 | A |
| (X)1060A | SunATM-155/MFiber SBus adapter 2.0 | $1,295 | A |
| (X)1061A | SunATM-155/UTP SBus adapter 2.0 | $995 | A |

*Step 8*

| SCSI Adapter |
|---|
| Order one SWIS/S SBus host adapter to connect external disks. |

→ **1063A** - SWIS/S SBus host adapter

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **SCSI ADAPTER** | | | |
| X1063A | SWIS/S Sbus host adapter | $1,195 | A |

*Step 9*

| External Disk |
|---|
| Add desired external disk storage.  Only 1 Sbus slot is available for either network or external disk SCSI adapter. |

→ **X5512A -** 12.6GB SCSI-2 MultiPack (6 X 2.1GB)
**X5513A -** 25.2GB SCSI-2 MultiPack (12 X 2.1GB)
**X5514A -** 8.4GB SCSI-2 MultiPack (2 X 4.2GB)
**X5515A -** 25.2GB SCSI-2 MultiPack (6 X 4.2GB)
**X5516A -** 50.4GB SCSI-2 MultiPack (12 X 4.2GB)

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **EXTERNAL DISK** | | | |
| X5512A | 12.6GB SCSI-2 MultiPack (6 X 2.1GB) | $6,700 | A |
| X5513A | 25.2GB SCSI-2 MultiPack (12X 2.1GB) | $12,400 | A |
| X5514A | 8.4GB SCSI-2 MultiPack (2 X 4.2GB) | $3,700 | A |
| X5515A | 25.2GB SCSI-2 MultiPack (6 X 4.2GB) | $9,400 | A |
| X5516A | 50.4GB SCSI-2 MultiPack (12 X 4.2GB) | $17,800 | A |

*Step 10*

| External Tape |
|---|
| Add desired external tape storage.  No SWIS/S host adapter needed. |

→ **X6057A** - 20/40GB FlexiPack DLT4000 68/68
**X6071A** - 140/280GB SPARCstorage DLT4700 AL
**X6227A** - 140GB SPARCstorage library (tower)
**X6208A** - 14GB 8mm UniPack tape 68/68

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **EXTERNAL TAPE** | | | |
| X6057A | 20/40GB FlexiPack DL T4000 68/68 | $6,900 | A |
| X6071A | 140/280GB SPARCstorage DLT4700 AL | $16,000 | A |
| X6208A | 14GB 8mm UniPack tape 68/68 | $2,625 | A |
| X6227A | 140GB SPARCstorage library (tower) | $8,500 | A |

**This is not an official Price List.  Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.**
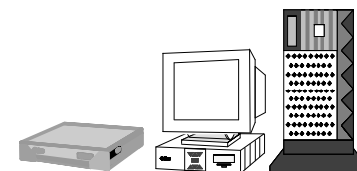
# Netra i - The Internet Server Family

# Netra j - The Server for Java Computing

| | Netra i 3000<br>Netra j 3000 | Netra i 4000<br>Netra j 4000 | Netra i 5000<br>Netra j 5000 |
|---|---|---|---|
| **Packaging** | Deskside | Deskside | Rack |
| **Processor** | UltraSPARC (1-6) | UltraSPARC (1-12) | |
| **Clock Speed** | 167MHz-250MHz | 167MHz-250MHz | |
| **Main Memory** | CTO, Max 6GB<br>4MB e-cache | Max 14GB<br>4MB e-cache | |
| **Storage Type** | 20 Mbps fast/wide SCSI | 20 Mbps fast/wide SCSI | |
| **Max. Internal Disk** | 91GB | 16.8GB | 216GB |
| **Ext. Disk Capacity** | > 2TB | > 4TB | > 6TB |
| **Package Slots** | 4 card cage slots, can be used for CPU/Memory, I/O, Disk | 8 card cage slots, can be used for CPU/Memory, I/O, Disk | |
| **Connectivity** | 10/100Mbps Ethernet (100Base-T or MII) | 10/100Mbps Ethernet (100Base-T or MII) | |
| **Network Options** | Token Ring, SunFastEthernet, Quad Ethernet, ISDN, HSI, FDDI, ATM, SunLink 3270 Gateway (Netra j family) | | |
| **Included Software** | **NETRA I SERIES:**<br><br>♦ **Operating System:** Solaris 2.5.1 (including UNIX mail services, DNS primary, secondary, and caching, Asynchronous PPP, basic security (TCP Wrappers)), Netra Software 3.1<br>♦ **WWW Services:** Netscape Enterprise Server, Netscape LiveWire<br>♦ **Authoring Tools:** Netscape Navigator Gold software, Java Developer's Kit and sample Java applets<br>♦ **Networking:** IPX Gateway<br>♦ **Administration:** Solstice DiskSuite, Solstice Backup, Solstice Answerbook<br>♦ **E-Mail:** IMAP4, POP3<br>♦ **Security:** FireWall-First! InterScan VirusWall, WebStalker-First<br><br>♦ Also included with Netra i 3000/4000/5000: Solstice SyMON, Netscape SuiteSpot | **NETRA J SERIES:**<br>(Note: Underlined components are included in the Netra j Enhancement Software (NETRA-J-1.1-ESW))<br><br>♦ **Network Client Support:** <u>DHCP</u>, <u>Network Information Service (NIS)</u>, <u>JavaStation Software Environment with HotJava Views 1.0</u>, DNS<br>♦ **Back-End Connectivity:** <u>OC://WebConnect Pro</u> (includes <u>OC://WebConnect Gold SNA/legacy access software</u>, <u>OpenVista IDE 3270/5250 front-end development software</u>) 8 licenses included; upgrades available in 10 and 100 license quantities<br>♦ **Netra browser-based administration software:** <u>JavaStation client, user, and HotJava Views groups and properties administration</u>, <u>NIS, DNS, and legacy connectivity administration</u><br>♦ **Java and Web Development:** <u>Java WorkShop, JavaVirtualMachine, Joe, Netra j Java Computing Library</u>, Java Developer's Kit (JDK) 1.0.2 and <u>JDK 1.1</u>, Netscape LiveWire, Netscape Navigator Gold<br>♦ **Netra Ready ISV applications:** <u>Applix Anyware, Corel Office for Java, and Sanga Software</u><br>♦ **Web and E-mail:** Netscape Enterprise Server, IMAP4, POP3<br>♦ **Network Connectivity:** Primary/secondary/caching DNS server, IPX Gateway software, Asynchronous PPP, Telnet, FTP, Anonymous FTP Server, TCP/IP support for all client types<br>♦ **Security:** FireWall-First!, Interscan VirusWall, WebStalker-First<br><br>♦ Also included with Netra i 3000/4000/5000: Solstice SyMON, Netscape SuiteSpot | |

# Netra Internet Server 3000, 4000, and 5000

This is a sample ordering guide for the Netra Internet Server 3000. Each step outlined by a large box in the guide represents a line item on a server sales order. A minimum legal configuration can be created by choosing one option at each step of the order process marked "**Required**". Larger configurations can be created by choosing multiple options. It is possible to upgrade a Netra i 3000 to support the Netra j functionality. Follow the ordering procedures for Netra i 3000 and add the Netra j Enhancement Software (NETRA-J-1.0-ESW) to the order. **NOTE:** Order an Encryption Kit (NETRA-I-3.1-E-S) at no charge with every Netra Internet server that is ordered in the United States.

*Step 1(required)*

| Select Family Part Number |
→
| **NETRA-I-E3000** - Netra i 3000 |
| **NETRA-I-E4000** - Netra i 4000 |
| **NETRA-I-E5000** - Netra i 5000 |

*Step 2 (required)*

| Netra Base Package |
→
| **NETRA-I-3.1-3002** - Netra i 3000 |
| **NETRA-I-3.1-4001** - Netra i 4000 |
| **NETRA-I-3.1-5001** - Netra i 5000 |

*Step 3 (required)*

| **UltraSPARC Module** |
| Minimum of 1 per system |
| Maximum of 2 per CPU/memory board |
| |
| *Netra i 3000:* |
| Maximum of 6 total |
| |
| *Netra i 4000/5000:* |
| Maximum of 14 total |
→
| **2510A** - 167MHz, 1MB external cache |
| **2530A** - 250MHz, 1MB external cache |
| **2550A** - 250MHz, 4MB external cache |

*cont.*

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| NETRA-I-3.1-3002 | Netra i 3000 web server, enclosure, 4-slot card cage, 1 SunCD 12, 1 power/cooling modules, Netra 3.1.1 software pre-installed, InterScan VirusWall, WebStalker-First, netscape Suitespot, no processor, no memory, no CPU/memory boards, no I/O boards. | $16,000 | A |
|  | **Note:** Requires Solaris 2.5.1 or later. |  |  |
| NETRA-I-3.1-4001 | Netra i 4000 Web Server, Enclosure, 8-slot card cage, 1 SunCD 4, 2 Power/Cooling Modules, no processor, no memory, no CPU/Memoryo Boards, no I/O boards. Netra 3.1 software pre-installed, InterScan VirusWall, WebStalker-First, Netscape SuiteSpot. | $46,000 | A |
| NETRA-I-3.1-5001 | Netra i 5000 Web Server, Enclosure, 8-slot card cage, 1 SunCD 4, 2 Power/Cooling Modules, no processor, no memory, no CPU/Memory Boards, no I/O boards. Netra 3.1 software pre-installed, InterScan VirusWall, WebStalker-First, Netscape SuiteSpot. | $61,000 | A |
| **NETRA J ENHANCEMENT SOFTWARE** | | | |
| NETRA-J-1.0-ESW | Software-only enhancement to convert a Netra Internet Server Release 3.1 into a Netra j Server for Java computing. Includes JavaStation client and user support DHCP, Netra administration extensions for managing JaaStation clients, userws and NIS; WebConnect software for SNA access and Open Vista for 3270/5250/VT220 GUI. | $395 | B |

| ULTRASPARC MODULE | | | |
|---|---|---|---|
| (X)2510A | 167MHz UltraSPARC module w/ 1MB external cache | $12,000 | A |
| (X)2530A | 250MHz UltraSPARC module w/ 1MB external cache | $16,000 | A |
| (X)2550A | 250MHz UltraSPARC module w/ 4MB external cache | $19,000 | A |

**Note:** Mixing of different speed modules is not supported. Mixing of same speed (167MHz) modules is supported if both on a single CPU/Memory Board have the same external cache size.

**This is not an official Price List. Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.**

# Netra Internet Server 3000, 4000, and 5000 - (cont.)

*Step 4 (required)*

| Memory |
|---|
| Minimum of 1 per system |
| Maximum of 2 per CPU/memory board |
| |
| *Netra i 3000:* |
| Maximum of 6 total |
| |
| *Netra i 4000/5000:* |
| Maximum of 14 total |

**7022A** - 256MB (8 X 32MB SIMMs)
**7023A** - 1GB (8 X 128MB SIMMs)

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **MEMORY** | | | |
| (X)7022A | 256MB memory expansion (8 X 32MB SIMMs) | $4,750 | A |
| (X)7023A | 1GB memory expansion (8 X 128MB SIMMs) | $48,500 | A |

**Note:** One memory expansion occupies one memory bank (1 memory bank=8 SIMMs).  Mixing memory options is supported if all SIMMs in one memory bank are the same.

*Step 5 (required)*

| CPU/Memory Board |
|---|
| Minimum of 1 per system |
| |
| *Netra i 3000:* |
| Maximum of 3 |
| |
| *Netra i 4000/5000:* |
| Maximum of 7 |

**2601A** - CPU/memory board

| | | | |
|---|---|---|---|
| **CPU/MEMORY BOARD** | | | |
| (X)2601A | CPU/memory board, 2 empty CPU slots, 2 empty memory banks (up to 4MB modules) | $9,000 | A |

**Note:** One CPU/memory board supports up to 2 memory expansion options and up to 2 UltraSPARC modules.

*Step 6 (required)*

| I/O Boards |
|---|
| |
| *Netra i 3000:* |
| Minimum of 1, maximum of 3 |
| |
| *Netra i 4000/5000:* |
| Minimum of 1 SBus board, maximum of 5 Graphics boards. |

**2610A** - SBus I/O board
**2620A** - Graphics I/O board

| | | | |
|---|---|---|---|
| **I/O BOARDS** | | | |
| (X)2610A | Ex000 SBus I/O board | $6,500 | A |
| (X)2620A | Ex000 Graphics I/O board | $7,000 | A |

*Step 7 (required)*

| *Netra i 4000/5000 only:* |
|---|
| |
| **Disk Board** |
| Minimum of 1 per system |
| Maximum of 4 |

**5161A -** 4.2GB disk board

| | | | |
|---|---|---|---|
| **NETRA I 4000/5000 DISK BOARDS** | | | |
| 5161A | 4.2GB Disk Board, 2 x 2.1GB 7200 RPM Fast/Wide SCSI Disk Drives<br>*NOTE:* At least one SWIS/S SBus card is required to connect to the Disk Board on Netra i 5000. | $3,700 | A* |

*cont.*

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# Netra Internet Server 3000, 4000, and 5000 - (cont.)

*Step 8 (optional)*

**Power/Cooling Module**

*Netra i 3000:*
Minimum of 1 per system
Maximum of 3

*Netra i 4000/5000:*
2 included in base package
Maximum of 4

**954A -** Power/Cooling Module, 300W

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| (X)954A | Enterprise power/cooling module, 300W | $1,800 | A |

*Step 9 (optional)*

*Netra i 3000 only:*

**Second Peripheral Power Supply**
Maximum of 1

**958A** - Second peripheral power supply

| NETRA I 3000 POWER SUPPLY | | | |
|---|---|---|---|
| (X)958A | Second peripheral power supply, 184W | $1,500 | A |

*Step 10 (required)*

*Netra i 3000 only:*

**Internal Disk Options**
Minimum of one 4.2GB disk drive.
Maximum of 10 internal disk drives.

**5153A** - 2.1GB 7200 RPM disk drive
**5214A** - 4.2GB 7200 RPM disk drive
**5251A** - 9.1GB 7200 RPM disk drive

| NETRA I INTERNAL DISK OPTIONS | | | |
|---|---|---|---|
| (X)5153A | Internal 2.1GB 7200 RPM fast wide SCSI-2 disk drive | $950 | A |
| (X)5214A | Internal 4.2GB 7200 RPM fast wide SCSI-2 disk drive | $1,400 | A |
| (X)5251A | Internal 9.1GB 7200 RPM fast wide SCSI-2 disk drive | $2,320 | A |

*cont.*

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# Netra Internet Server 3000, 4000, and 5000 - (cont.)

*Step 11 (optional)*

| Internal Tape Options |
| --- |

*Netra i 3000:*
Maximum of 1

*Netra i 4000:*
Maximum of 1

*Netra i 5000:*
.
**Choose one:**
Maximum of 1

**-and choose one:**

Maximum of 1 multi-tape backup tray (MTBT) or SPARCstorage library (SSL). Additional expansion tape drive options are available for the MTBT's.

➡

*Netra i 3000:*

**6104A** - 2.5GB 1/4" tape drive
**6213A** - 14GB 8mm tape drive
**6234A** - 20/40GB 8mm tape drive
**6283A** - 4mm 12-24GB DDS-3 tape drive

*Netra i 4000:*

**6104A** - 2.5GB 1/4" tape drive
**6213A** - 14GB 8mm tape drive
**6235A** - 20/40GB 8mm tape drive
**6283A** - 4mm 12-24GB DDS-3 tape drive

*Netra i 5000:*

*Choose one:*

**6104AR4** - Internal 2.5GB 1/4" Tape Drive
**6283AR4** - Internal 12-24GB 4mm DDS-3 Tape Drive

*- and choose one :*

**6056AR4** - DLT4000 Tape Drive with MTBT
**6226AR4** - 400GB 8mm SPARCstorage Library Model 8/400
**6228AR4** - 140GB SSL, 1 Tape Drive
**6292AR4** - 72-144GB 4mm DDS-3 Tape Autoloader w/ MTBT

| Part Number | Description | List Price | Discount Category |
| --- | --- | --- | --- |
| **NETRA I 3000 INTERNAL TAPE OPTIONS** | | | |
| (X)6104A | Internal 2.5GB 1/4" tape drive | $900 | A |
| (X)6213A | Internal 14GB 8mm tape drive | $2,400 | A |
| (X)6234A | Internal 20-40GB tape drive w/cable | $6,400 | A |
| (X)6283A | Internal 12-24GB 4mm DDS-3 tape drive | $2,125 | A |
| **NETRA I 4000 INTERNAL TAPE OPTIONS** | | | |
| (X)6104A | Internal 2.5GB 1/4" tape drive | $900 | A |
| (X)6213A | Internal 14GB 8mm tape drive | $2,400 | A |
| (X)6235A | Internal 20-40GB tape drive w/cable for Netra i 4000 | $6,400 | A |
| (X)6283A | Internal 12-24GB 4mm DDS-3 tape drive | $2,125 | A |
| **NETRA I 5000 INTERNAL TAPE OPTIONS** | | | |
| 6104AR4 | Internal 2.5GB 1/4-inch Tape Drive | $900 | A |
| 6283AR4 | Internal 12-24GB 4mm DDS-3 Tape Drive | $2,125 | A |
| 6056AR4 | 20-40GB SPARCstorage DLT4000 Expansion Tape Drive with the Multi-Tape Backup Tray (50-68 pin SCSI cable). | $8,500 | A |
| 6226AR4 | 400GB 8mm SPARCstorage Library Model 8/400, rack mountable unit with tape drives, dark grey color | $26,000 | A |
| 6228AR4 | 140GB SPARCstorage, 1 tape drive | $8,500 | A |
| 6292AR4 | Internal 72-144GB 4mm DDS-3 Tape AutoLoader with Multi-Tape Backup Tray | $7,450 | A |

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*cont.*

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# Netra Internet Server 3000, 4000, and 5000 - (cont.)

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **NETRA I 3000/4000 SPARCSTORAGE ARRAYS OPTIONS** | | | |
| X6590A | SSA Model 112, 6 X 2.1GB 7200 RPM disk drives | $21,400 | A |
| X6591A | SSA Model 112, 18X 2.1GB 7200 RPM disk drives | $33,400 | A |
| X6592A | SSA Model 112, 30 X 2.1GB 7200 RPM disk drives | $45,400 | A |
| **NETRA I 5000 SPARCSTORAGE ARRAYS OPTIONS** | | | |
| 5161A | 4.2GB disk board, 2x2.1GB 7200 RPM  disk drives | $3,700 | A |
| 6590AR4 | SSA Model 112, 6 X 2.1GB 7200 RPM disk drives | $21,400 | A |
| 6591AR4 | SSA Model 112, 18X 2.1GB 7200 RPM disk drives | $33,400 | A |
| 6592AR4 | SSA Model 112, 30 X 2.1GB 7200 RPM disk drives | $45,400 | A |
| 6503AR4 | 3x4.2GB SPARCstorage RSM | $9,650 | A |
| 6504AR4 | 7x4.2GB SPARCstorage RSM | $15,850 | A |
| 959A | SSA rack-mount Accessories Kit | N/C | N/D |

**Step 12 (optional)**

**SPARCstorage Array Options**

*Netra i 3000:*
Maximum of 20

*Netra i 4000:*
Maximum of 40

*Netra i 5000:*

Maximum of 3 SSA model 112's
SSA Accessories Kit required
-or-
Maximum of 4 SSA RSM's
-or-
Maximum of 4 disk DSCSI trays

*Netra i 3000/4000:*

**X6590A** - 6 X 2.1GB disk drives
**X6591A** - 18 X 2.1GB disk drives
**X6592A** - 30 X 2.1GB disk drives

*Netra i 5000:*

**5161A** - 4.2GB disk board
**6590AR4** - 6x2.1GB disks
**6591AR4** - 18x2.1GB disks
**6592AR4** - 30x2.1GB disks
**6503AR4** - 3x4.2GB SPARCstorage RSM
**6504AR4** - 7x4.2GB SPARCstorage RSM

**and if required:**
**959A** - SSA Accessories Kit

**Step 13 (optional)**

**External Tape Options**

*Netra i 3000:*
Maximum of 4 external tape drives.
Maximum of 4 SPARCstorage libraries (SSL), SPARCstorage DLT4700 autoloaders or Enterprise tape libraries

*Netra i 4000/5000:*
Maximum of 4 external tape drives.
Maximum of 4 SPARCstorage libraries (SSL).

*Netra i 3000:*

**X6227A** - 140GB SSL, 1 tape drive
**X6225A -** 400GB SSL, 1 tape drive
**X6230A** - 20-40GB 8mm tape drive UniPack
**X6057A** - DLT4000 tape drive FlexiPack
**X6060A** - DLT7000 tape drive FlexiPack
**X6071A** - SPARCstorage DLT4700 tape autoloader
**X6072A** - Enterprise tape library ETL 4/1000

*Netra i 4000/5000:*

**X6227A** - 140GB SSL, 1 tape drive
**X6225A -** 400GB SSL, 1 tape drive
**X6057A** - DLT4000 tape drive FlexiPack
**X6060A** - DLT7000 tape drive FlexiPack
**X6071A** - SPARCstorage DLT4700 tape autoloader
**X6232A** - 20-40GB FlexiPack 8mm tape drive

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **NETRA I 3000 EXTERNAL TAPE OPTIONS** | | | |
| X6227A | 140GB SSL, 8mm tape drive, tower | $8,500 | A |
| X6225A | 400GB SSL, 8mm tape drive w/tape | $26,000 | A |
| X6230A | 20-40GB 8mm tape drive, UniPack | $6,625 | A |
| X6057A | DLT4000 tape drive, FlexiPack | $6,900 | A |
| X6060A | DLT7000 tape drive, FlexiPack | $10,900 | A |
| X6071A | 140-280GB SPARCstorage DLT4700 tape autoloader | $16,000 | A |
| X6072A | Enterprise tape library (ETL) 4/1000 | $85,000 | A |
| **NETRA I 4000/5000 EXTERNAL TAPE OPTIONS** | | | |
| X6227A | 140GB SSL, 8mm tape drive, tower | $8,500 | A |
| X6225A | 400GB SSL, 8mm tape drive w/tape | $26,000 | A |
| X6057A | DLT4000 tape drive, FlexiPack | $6,900 | A |
| X6060A | DLT7000 tape drive, FlexiPack | $10,900 | A |
| X6071A | 140-280GB SPARCstorage DLT4700 tape autoloader | $16,000 | A |
| X6232A | 20-40GB FlexiPack 8mm tape drive | $6,900 | A |

# Netra Internet Server 3000, 4000, and 5000 - (cont.)

*Step 14 (required)*

| *Netra i 4000/5000 only:* |
|---|
| **SCSI Host Adapter**<br>Minimum of 1. |

➤ | **1063A** - SWIS/S SBus Card |

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **NETRA I 4000/5000 SCSI HOST ADAPTER** | | | |
| (X)1063A | SBus single-ended fast/wide SCSI-2 host adapter (SWIS/S) | $1,195 | A |

*Step 15 (optional)*

| *Netra i 3000/4000/5000:* |
|---|
| **Interfaces and Host Adapters**<br>These options may be required to support configured mass storage and tape devices. |

➤

| **595A -** 25MB fibre channel optical module<br>**1057A** - SBus 25MB fibre channel host adapter<br>**1062A** - DWIS/S SBus card<br>**1063A** - SWIS/S SBus card<br><br>*Netra i 3000:*<br>**1018A** - SunSwift SBus adapter<br><br>*Netra i 4000/5000:*<br>**X1018A** - SunSwift SBus adapter |
|---|

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **INTERFACES AND HOST ADAPTERS** | | | |
| 595A | Fibre channel optical module, second fibre channel port for use on the SPARCstorage array or the 25MB/s SBus fibre channel host adapter | $600 | A |
| 1057A | SBus 25MB fibre channel host adapter | $1,600 | A |
| 1062A | SBus differential fast wide SCSI-2 host adapter (DWIS/S) | $1,295 | A |
| 1063A | SBus single-ended fast wide SCSI-2 host adapter (SWIS/S) | $1,195 | A |
| (X)1018A | SunSwift 100BaseT fast wide SCSI SBus adapter | $1,095 | A |

**Step 16 (required)**

| **Power Cord/Country Kit** |
|---|
| *Netra i 3000/4000:*<br>**-** Order 1 kit at no charge.<br>- Order a Power Cord Kit when server does not include a monitor. Order a Type 5 Country Kit when server includes a monitor.<br>- Order a Power Cord Kit for each external peripheral if required. |
| *Netra i 5000:*<br>**-** Minimum of 1.<br>- Maximum of 1 per cabinet.<br>- 1 required per every server or expansion cabinet. |

*Netra i 3000/4000:*

| **Power Cord Kits e.g.:**<br>**X311L -** North American/Asian<br>**...**<br>**Country Kits e.g.:**<br>**X3500A -** North American<br>**X3579A -** Canadian-Bilingual<br>**...** |
|---|

➤

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **NETRA I 3000/4000 POWER CORDS/COUNTRY KITS** | | | |
| X311L | North American/Asian Power Cord Kit | N/C | N/C |
| X3500A | North American Country Kit | N/C | N/C |
| X3579A | Canadian-Bilingual Country Kit | N/C | N/C |

*Note: Please see End User Price Book for full list of Kits.*

*Netra i 5000:*

| **3800A** - Power Cord, U.S. Version<br>**3848A** - Power Cord, Internation Version |
|---|

➤

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| **NETRA I 5000 POWER CORDS** | | | |
| | | | |
| 3800A | Power Cord, U.S. Version | N/C | N/C |
| 3848A | Power Cord, Internation Version | N/C | N/C |

# Sun MediaCenter UltraSPARC Server
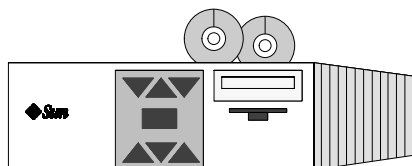
**PRODUCT SPECIFICATIONS**

| Multiprocessing | Yes |
|---|---|

| **Data (Video) Streaming Rates** | |
|---|---|
| Sustained throughput (Mbps) | 100 |
| Number of streams at 1.5 / 4.0 Mbps | 70 / 25 |
| Max. concurrent users at 1.5 / 4.0 Mbps | 70 / 25 |

| **Base Package Configuration** | |
|---|---|
| Base System | Ultra Enterprise 2 Model 2170 |
| Memory | 256MB |
| Internal Disk(s) | 2 x 2.1GB 7200 RPM Fast/Wide SCSI-2 |
| CD-ROM Drive | 644MB SunCD 4 |
| Floppy Drive | 1.44MB Floppy Drive |
| Tape Drive | No |
| Ethernet | (100BaseT) / 10BaseT |
| Serial Ports | 2 |
| High-Speed Parallel | 1 |
| Sun MediaCenter Software / License | Subset Pre-Installed / Server |
| Solaris Software / License | Solaris 2.5.1 Subset Pre-Installed |

| **System Processor** | |
|---|---|
| Number of CPUs | 2 |
| CPU Clock Speed | 167 MHz |
| CPU Type | UltraSPARC |
| Cache Size on CPU / CPU Module | 512KB / 2MB |

| **Network Interfaces** | | |
|---|---|---|
| Forward (MPEG Encoded Data) | | |
| Interface Adapter | ATM | Fast Ethernet |
| Adapter Throughput (Mbps) | 155 | 100 |
| Number of Adapters | 1 | 2 (1 on-board, 1 adapter) |
| Back Channel (TCP/IP) | ATM or Ethernet | Fast Ethernet or Ethernet |

| **Media (Video) Storage** | |
|---|---|
| Total / Net Capacity | 50.4GB / 42.2GB |
| True VOD Title Capacity (30 min) at 1.5 / 4.0 Mbps | 124 / 42 |
| Controller Interface | Fast/Wide SCSI |
| Number of Controllers | 2 |
| RAID Level | RAID 4 (parity / striping) |
| Data Integrity / Recover | 5:1 Parity |

| **VCR Functions (VOD, NVOD)** | NVOD and True VOD |
|---|---|

| **Media Content Format** | |
|---|---|
| Video: MPEG-1 Systems | Yes |
| Video: MPEG-1 Program and Transport | Yes |
| Audio: MPEG 1, Layer 1/2 | Yes |

## *Model 500 with Two 167-MHz UltraSPARC Processors, each with 512KB UltraCache:*

| Part Number | Description | List Price | Discount Category |
|---|---|---|---|
| SMC-A14-167-500 | Sun MediaCenter 500 Base Package, 256MB, 2 x 2.1GB 7200 RPM Internal Fast/Wide SCSI-2 disks, 644MB Internal SunCD 4, 50.4GB RAID-4 storage witih 0.8 meter cable. | $89,995 | A |

**GENERAL NOTES:**-  Sun MediaCenters are shipped fully configured and will support limited field/customer installed options.

- All internal add-on components must be included on the initial system order.

- All systems ship with the appropriate Solaris 2.x Server License.  Systems are delivered with the Sun MediaCenter Software and a customized version of Solaris pre-installed (no CD-ROM media included).  Order a Solaris 2.5.1 Server Media Kit separately.

- Solstice Backup and Solstice DiskSuite are not compatible with the Sun MediaCenter Media File System.

- All system orders must include a Localized Power Cord Kit at no charge.  Type 5 Country Kits are not available for Sun MediaCenters.

**This is not an official Price List.  Please consult the official Price Lists, or contact your Sun Sales Representative or Authorized Reseller before placing an order.**